

52620

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/519,238

Source: PCT/10

Date Processed by STIC: 1/19/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/519,238

CRF Edit Date: 1/19/05
Edited by: [Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: invalid beginning/end-of-file text ; page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



PCT10

RAW SEQUENCE LISTING

DATE: 01/19/2005

PATENT APPLICATION: US/10/519,238

TIME: 15:02:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01192005\J519238.raw

```

3 <110> APPLICANT: Cellzome AG
5 <120> TITLE OF INVENTION: Components of the Presenilin Complex
7 <130> FILE REFERENCE: Components of the Presenilin Complex
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/519,238
C--> 9 <141> CURRENT FILING DATE: 2004-12-22
9 <150> PRIOR APPLICATION NUMBER: PCT/EP03/06704
10 <151> PRIOR FILING DATE: 2003-06-25
12 <150> PRIOR APPLICATION NUMBER: EP02014244.4
13 <151> PRIOR FILING DATE: 2002-06-26
15 <160> NUMBER OF SEQ ID NOS: 6
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 247
21 <212> TYPE: PRT
22 <213> ORGANISM: Homo sapiens
24 <400> SEQUENCE: 1
26 Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro
27 1 5 10 15
30 Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
31 20 25 30
34 Ile Ile Leu Val Ala Gly Ala Phe Trp Leu Val Ser Leu Leu Leu
35 35 40 45
38 Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
39 50 55 60
42 Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
43 65 70 75 80
46 Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
47 85 90 95
50 Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile
51 100 105 110
54 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
55 115 120 125
58 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
59 130 135 140
62 Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
63 145 150 155 160
66 Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val
67 165 170 175
70 Val Phe Phe Asp Ala Cys Glu Arg Arg Tyr Trp Ala Leu Gly Leu
71 180 185 190
74 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro
75 195 200 205
78 Trp Tyr Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met

```

RAW SEQUENCE LISTING

DATE: 01/19/2005

PATENT APPLICATION: US/10/519,238

TIME: 15:02:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01192005\J519238.raw

```

79      210      215      220
82 Gly Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
83 225      230      235      240
86 Arg Ser Leu Leu Cys Lys Asp
87      245
90 <210> SEQ ID NO: 2
91 <211> LENGTH: 467
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 2
97 Met Thr Glu Leu Pro Ala Pro Leu Ser Tyr Phe Gln Asn Ala Gln Met
98 1      5      10      15
101 Ser Glu Asp Asn His Leu Ser Asn Thr Val Arg Ser Gln Asn Asp Asn
102      20      25      30
105 Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu
106      35      40      45
109 Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
110      50      55      60
113 Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
114 65      70      75      80
117 His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
118      85      90      95
121 Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
122      100      105      110
125 Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
126      115      120      125
129 Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
130      130      135      140
133 Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
134 145      150      155      160
137 Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Phe Phe
138      165      170      175
141 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
142      180      185      190
145 Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
146      195      200      205
149 Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
150      210      215      220
153 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
154 225      230      235      240
157 Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
158      245      250      255
161 Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met (Leu Val
162      260      265      270
165 Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr
166      275      280      285
169 Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
170      290      295      300
174 Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/519,238

DATE: 01/19/2005

TIME: 15:02:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01192005\J519238.raw

```

175 305          310          315          320
178 Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe
179          325          330          335
182 Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
183          340          345          350
186 Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
187          355          360          365
190 Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
191          370          375          380
194 Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
195 385          390          395          400
198 Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
199          405          410          415
202 Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
203          420          425          430
206 Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
207          435          440          445
210 Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln
211          450          455          460
214 Phe Tyr Ile
215 465
218 <210> SEQ ID NO: 3
219 <211> LENGTH: 709
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 3
225 Met Ala Thr Ala Gly Gly Gly Ser Gly Ala Asp Pro Gly Ser Arg Gly
226 1          5          10          15
229 Leu Leu Arg Leu Leu Ser Phe Cys Val Leu Leu Ala Gly Leu Cys Arg
230          20          25          30
233 Gly Asn Ser Val Glu Arg Lys Ile Tyr Ile Pro Leu Asn Lys Thr Ala
234          35          40          45
237 Pro Cys Val Arg Leu Leu Asn Ala Thr His Gln Ile Gly Cys Gln Ser
238          50          55          60
241 Ser Ile Ser Gly Asp Thr Gly Val Ile His Val Val Glu Lys Glu Glu
242 65          70          75          80
245 Asp Leu Gln Trp Val Leu Thr Asp Gly Pro Asn Pro Pro Tyr Met Val
246          85          90          95
249 Leu Leu Glu Ser Lys His Phe Thr Arg Asp Leu Met Glu Lys Leu Lys
250          100          105          110
253 Gly Arg Thr Ser Arg Ile Ala Gly Leu Ala Val Ser Leu Thr Lys Pro
254          115          120          125
257 Ser Pro Ala Ser Gly Phe Ser Pro Ser Val Gln Cys Pro Asn Asp Gly
258          130          135          140
261 Phe Gly Val Tyr Ser Asn Ser Tyr Gly Pro Glu Phe Ala His Cys Arg
262 145          150          155          160
265 Glu Ile Gln Trp Asn Ser Leu Gly Asn Gly Leu Ala Tyr Glu Asp Phe
266          165          170          175
269 Ser Phe Pro Ile Phe Leu Leu Glu Asp Glu Asn Glu Thr Lys Val Ile

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/519,238

DATE: 01/19/2005

TIME: 15:02:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01192005\J519238.raw

270				180				185				190				
273	Lys	Gln	Cys	Tyr	Gln	Asp	His	Asn	Leu	Ser	Gln	Asn	Gly	Ser	Ala	Pro
274			195					200				205				
277	Thr	Phe	Pro	Leu	Cys	Ala	Met	Gln	Leu	Phe	Ser	His	Met	His	Ala	Val
278		210					215					220				
281	Ile	Ser	Thr	Ala	Thr	Cys	Met	Arg	Arg	Ser	Ser	Ile	Gln	Ser	Thr	Phe
282	225					230				235					240	
285	Ser	Ile	Asn	Pro	Glu	Ile	Val	Cys	Asp	Pro	Leu	Ser	Asp	Tyr	Asn	Val
286					245				250						255	
289	Trp	Ser	Met	Leu	Lys	Pro	Ile	Asn	Thr	Thr	Gly	Thr	Leu	Lys	Pro	Asp
290			260					265					270			
293	Asp	Arg	Val	Val	Ala	Ala	Thr	Arg	Leu	Asp	Ser	Arg	Ser	Phe	Phe	
294		275					280					285				
297	Trp	Asn	Val	Ala	Pro	Gly	Ala	Glu	Ser	Ala	Val	Ala	Ser	Phe	Val	Thr
298		290				295					300					
301	Gln	Leu	Ala	Ala	Ala	Glu	Ala	Leu	Gln	Lys	Ala	Pro	Asp	Val	Thr	Thr
302	305				310					315					320	
305	Leu	Pro	Arg	Asn	Val	Met	Phe	Val	Phe	Phe	Gln	Gly	Glu	Thr	Phe	Asp
306				325				330							335	
309	Tyr	Ile	Gly	Ser	Ser	Arg	Met	Val	Tyr	Asp	Met	Glu	Lys	Gly	Lys	Phe
310			340					345				350				
313	Pro	Val	Gln	Leu	Glu	Asn	Val	Asp	Ser	Phe	Val	Glu	Leu	Gly	Gln	Val
314		355				360					365					
317	Ala	Leu	Arg	Thr	Ser	Leu	Glu	Leu	Trp	Met	His	Thr	Asp	Pro	Val	Ser
318		370				375					380					
321	Gln	Lys	Asn	Glu	Ser	Val	Arg	Asn	Gln	Val	Glu	Asp	Leu	Leu	Ala	Thr
322	385				390				395						400	
325	Leu	Glu	Lys	Ser	Gly	Ala	Gly	Val	Pro	Ala	Val	Ile	Leu	Arg	Arg	Pro
326				405				410							415	
329	Asn	Gln	Ser	Gln	Pro	Leu	Pro	Pro	Ser	Ser	Leu	Gln	Arg	Phe	Leu	Arg
330			420					425				430				
333	Ala	Arg	Asn	Ile	Ser	Gly	Val	Val	Leu	Ala	Asp	His	Ser	Gly	Ala	Phe
334		435				440					445					
337	His	Asn	Lys	Tyr	Tyr	Gln	Ser	Ile	Tyr	Asp	Thr	Ala	Glu	Asn	Ile	Asn
338		450				455					460					
341	Val	Ser	Tyr	Pro	Glu	Trp	Leu	Ser	Pro	Glu	Glu	Asp	Leu	Asn	Phe	Val
342	465				470				475						480	
345	Thr	Asp	Thr	Ala	Lys	Ala	Leu	Ala	Asp	Val	Ala	Thr	Val	Leu	Gly	Arg
346				485				490							495	
349	Ala	Leu	Tyr	Glu	Leu	Ala	Gly	Gly	Thr	Asn	Phe	Ser	Asp	Thr	Val	Gln
350			500					505					510			
353	Ala	Asp	Pro	Gln	Thr	Val	Thr	Arg	Leu	Leu	Tyr	Gly	Phe	Leu	Ile	Lys
354		515					520					525				
357	Ala	Asn	Asn	Ser	Trp	Phe	Gln	Ser	Ile	Leu	Arg	Gln	Asp	Leu	Arg	Ser
358		530				535					540					
361	Tyr	Leu	Gly	Asp	Gly	Pro	Leu	Gln	His	Tyr	Ile	Ala	Val	Ser	Ser	Pro
362	545				550				555						560	
365	Thr	Asn	Thr	Thr	Tyr	Val	Val	Gln	Tyr	Ala	Leu	Ala	Asn	Leu	Thr	Gly
366				565				570							575	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/519,238

DATE: 01/19/2005

TIME: 15:02:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01192005\J519238.raw

```

369 Thr Val Val Asn Leu Thr Arg Glu Gln Cys Gln Asp Pro Ser Lys Val
370          580          585          590
373 Pro Ser Glu Asn Lys Asp Leu Tyr Glu Tyr Ser Trp Val Gln Gly Pro
374          595          600          605
377 Leu His Ser Asn Glu Thr Asp Arg Leu Pro Arg Cys Val Arg Ser Thr
378          610          615          620
381 Ala Arg Leu Ala Arg Ala Leu Ser Pro Ala Phe Glu Leu Ser Gln Trp
382 625          630          635          640
385 Ser Ser Thr Glu Tyr Ser Thr Trp Thr Glu Ser Arg Trp Lys Asp Ile
386          645          650          655
389 Arg Ala Arg Ile Phe Leu Ile Ala Ser Lys Glu Leu Glu Leu Ile Thr
390          660          665          670
393 Leu Thr Val Gly Phe Gly Ile Leu Ile Phe Ser Leu Ile Val Thr Tyr
394          675          680          685
397 Cys Ile Asn Ala Lys Ala Asp Val Leu Phe Ile Ala Pro Arg Glu Pro
398          690          695          700
401 Gly Ala Val Ser Tyr
402 705
405 <210> SEQ ID NO: 4
406 <211> LENGTH: 257
407 <212> TYPE: PRT
408 <213> ORGANISM: Homo sapiens
410 <400> SEQUENCE: 4
412 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro
413 1          5          10          15
416 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Thr Glu Pro Leu Arg Ile
417          20          25          30
420 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile
421          35          40          45
424 Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp
425          50          55          60
428 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val
429 65          70          75          80
432 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
433          85          90          95
436 Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser
437          100          105          110
440 Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser
441          115          120          125
444 Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly
445          130          135          140
448 Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala
449 145          150          155          160
452 Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val
453          165          170          175
456 Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val
457          180          185          190
460 Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr
461          195          200          205

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/519,238

DATE: 01/19/2005

TIME: 15:02:01

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01192005\J519238.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date